SWP Water Quality Summary

August 12 to 19, 2009

Electrical Conductivity: Concentrations decreased at Harvey O. Banks Pumping Plant (HBP), Devil Canyon and Vallecitos, but increased at Check 41, from August 12 to 19, 2009. Concentrations ranged from 213 µS/cm to 473 µS/cm (128 mg/L to 284 mg/L), below the Article 19 Monthly Average Objective of 440 mg/L (733 µS/cm). As of August 19, 2009, daily average concentrations varied at all the locations, with the lowest concentration of 384 µS/cm at Check 41 and Devil Canyon while the highest concentration of 453 µS/cm occurred at Vallecitos. EC concentrations at HBP decreased from 457 µS/cm to 415 µS/cm, as of August 19, 2009. No data were unavailable for Check 29 because of malfunctioning instruments.

Bromide: Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations. Bromide concentrations ranged from 0.06 mg/L to 0.21 mg/L. As of August 19, 2009, Check 41 and Devil Canyon had the lowest concentration of 0.15 mg/L, followed by HBP with 0.17 mg/L, while the highest concentration of 0.20 mg/L occurred at Vallecitos.

Turbidity: As of August 19, 2009, turbidity levels decreased at HBP, Check 41 and Vallecitos. Turbidity levels ranged from 1.0 NTU to 6.9 NTU this week. On August 19, 2009, the lowest level of 1.6 NTU occurred at Devil Canyon while the highest level of 4.9 NTU occurred at Check 41. In addition, as of August 19, 2009, the levels at HBP decreased from 6.2 NTU to 4.8 NTU.

Dissolved Organic Carbon (DOC): Concentrations decreased at HBP and Check 13 from August 12 to 19, 2009. DOC concentrations decreased from 2.3 mg/L to 2.0 mg/L and from 2.3 mg/L to 2.1 mg/L at HBP and Check 13, respectively. Concentrations at Edmonston were unchanged at 2.7 mg/L, as of August 19, 2009.

Taste and Odor Compounds: MIB and geosmin levels ranged from non-detect to 18 ng/L at Clifton Court Inlet and Outlet, HBP, Del Valle Check 7, O'Neill Forebay, Check 41, Check 66, Castaic Lake, Silverwood Lake, and Lake Perris as of August 19, 2009.

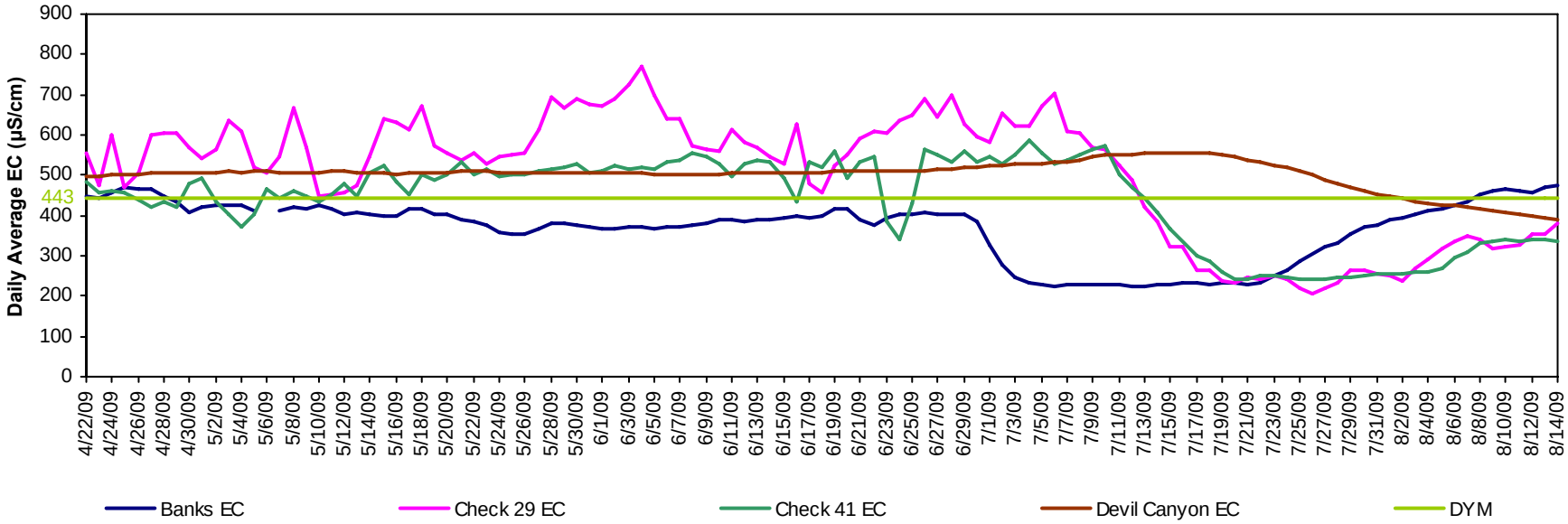
Ground water pump-ins to the California Aqueduct from:

- Arvin Edison Water Storage District = 2 af
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 3,857 af
- Kern County Water Agency (who operate the Cross Valley Canal) = 741 af
- Semitropic Water Storage District =14 af
- Which total 4,614 AF during August 12 to 19, 2009.

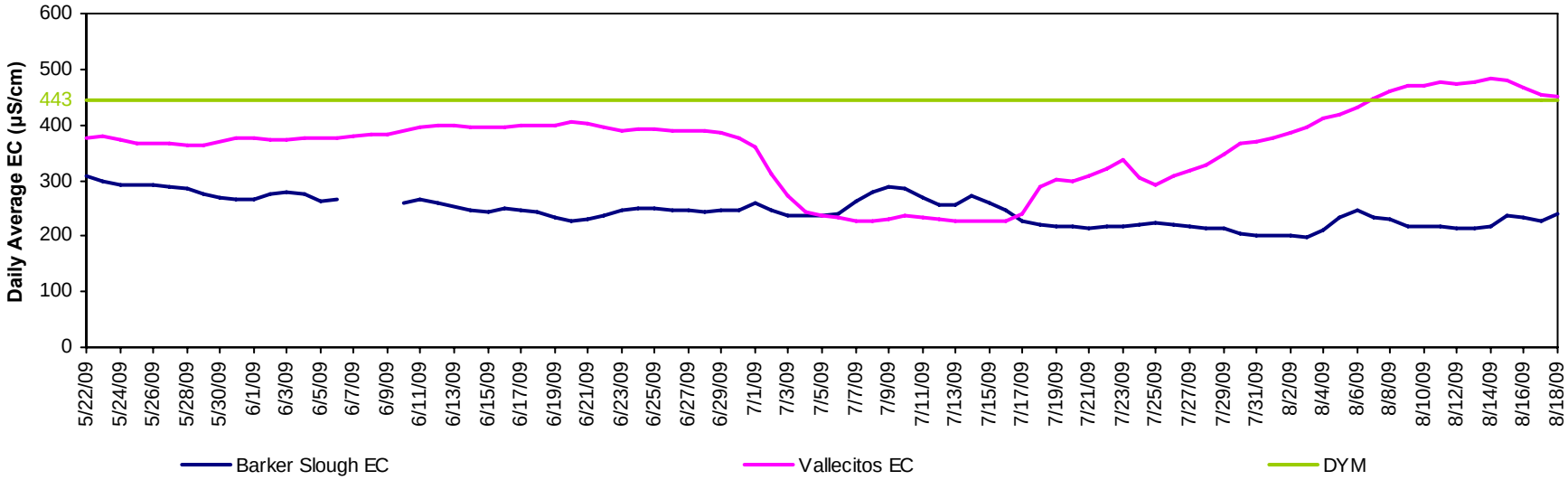
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit:

http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

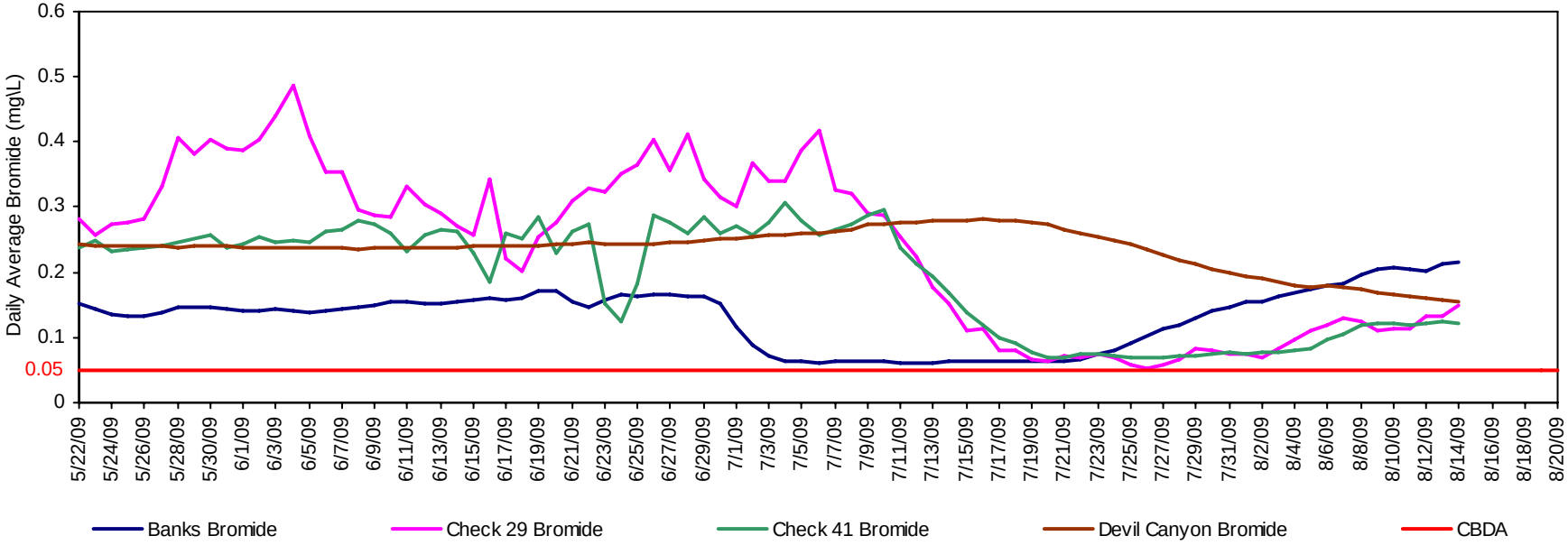
California Aqueduct - Electrical Conductivity



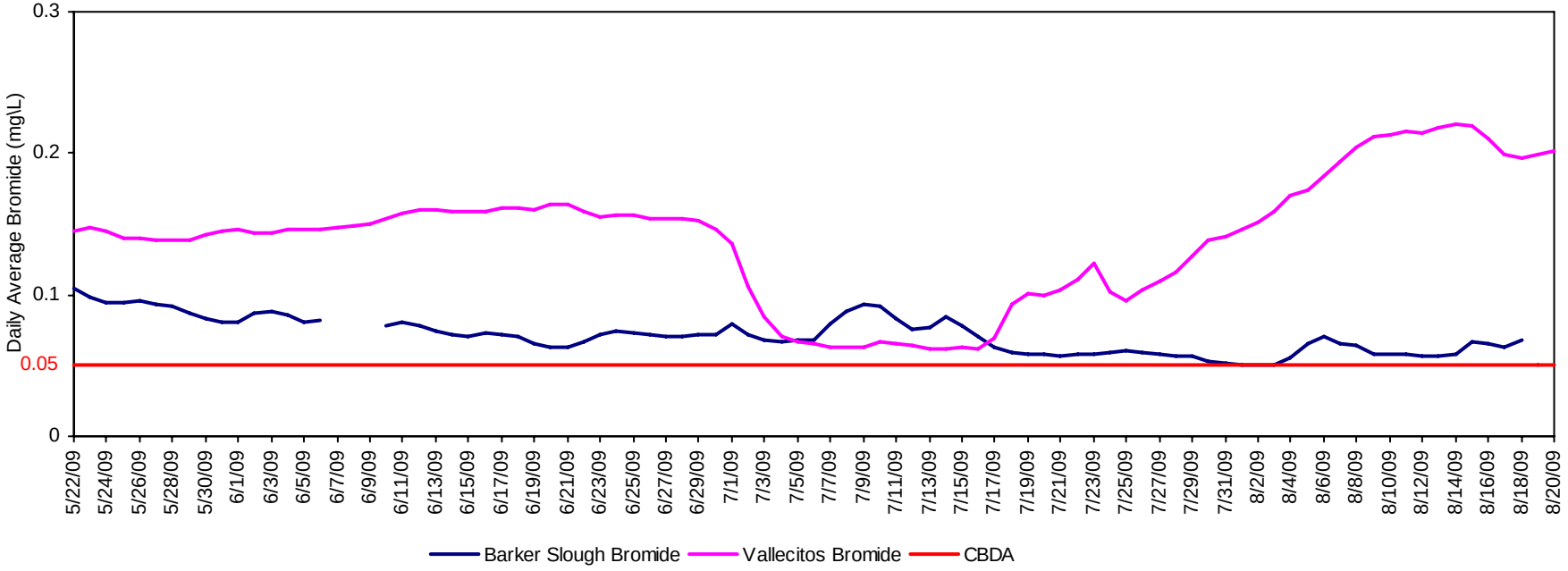
North and South Bay Aqueduct - Electrical Conductivity



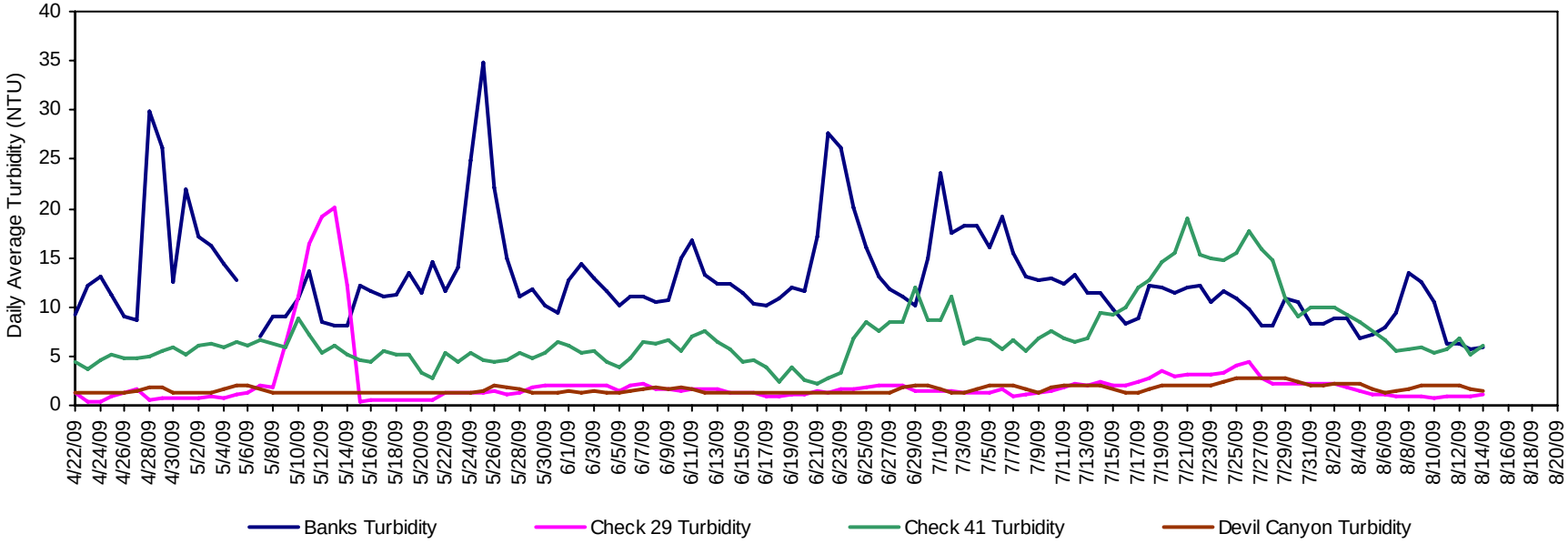
California Aqueduct - Calculated Bromide



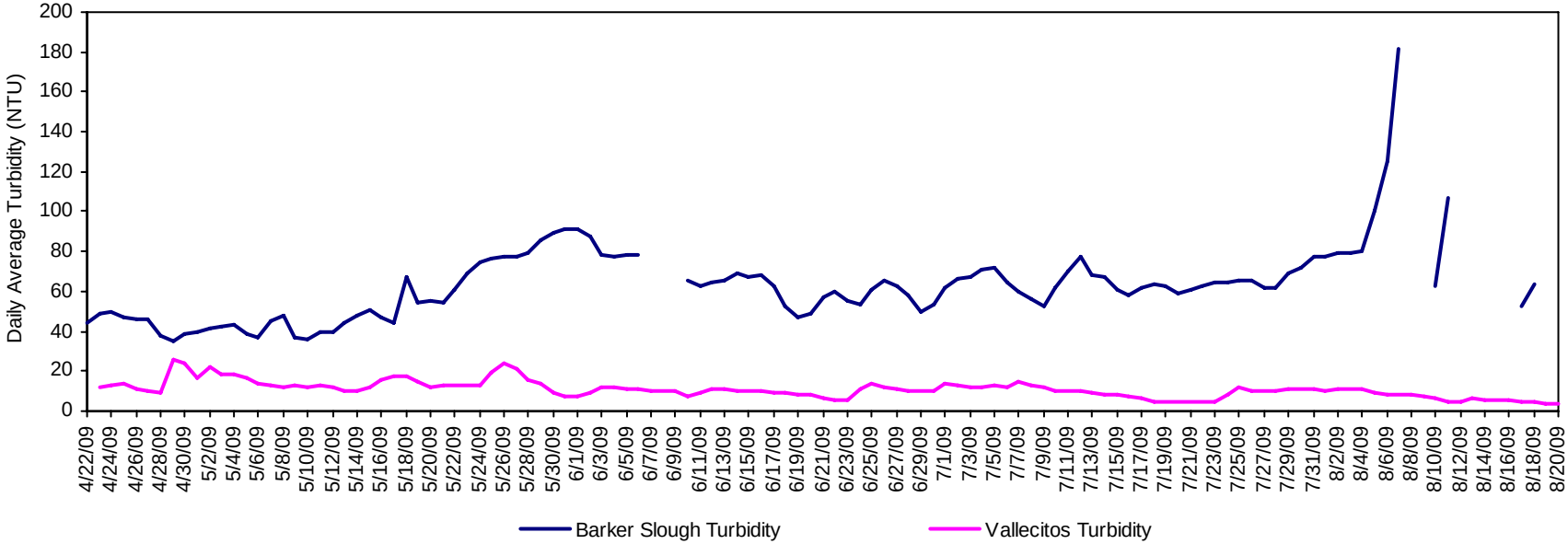
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct
Calculated Dissolved Organic Carbon